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# SCHOOL OF PHARMACY,

PURDUE UNIVERSITY,

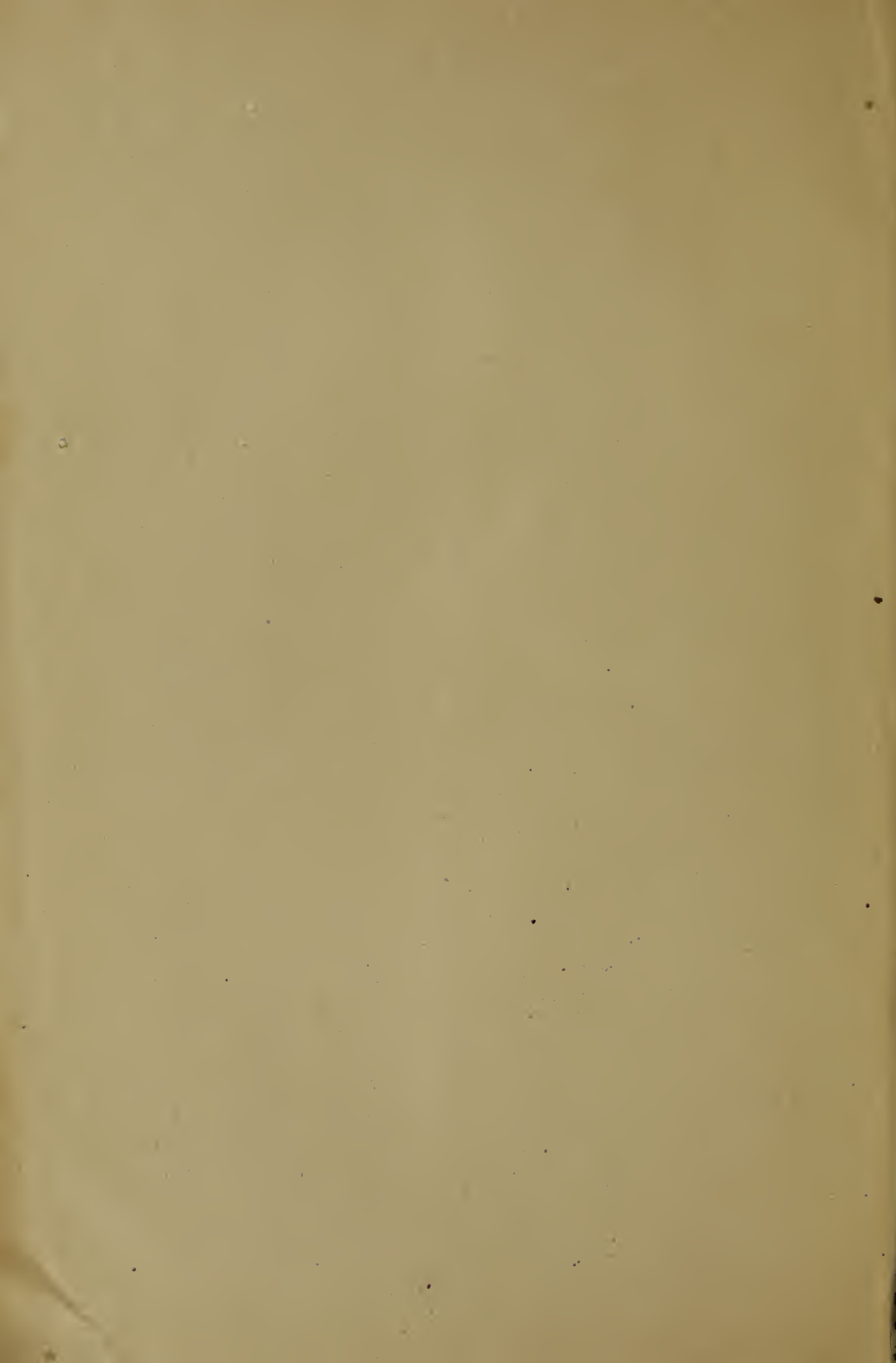
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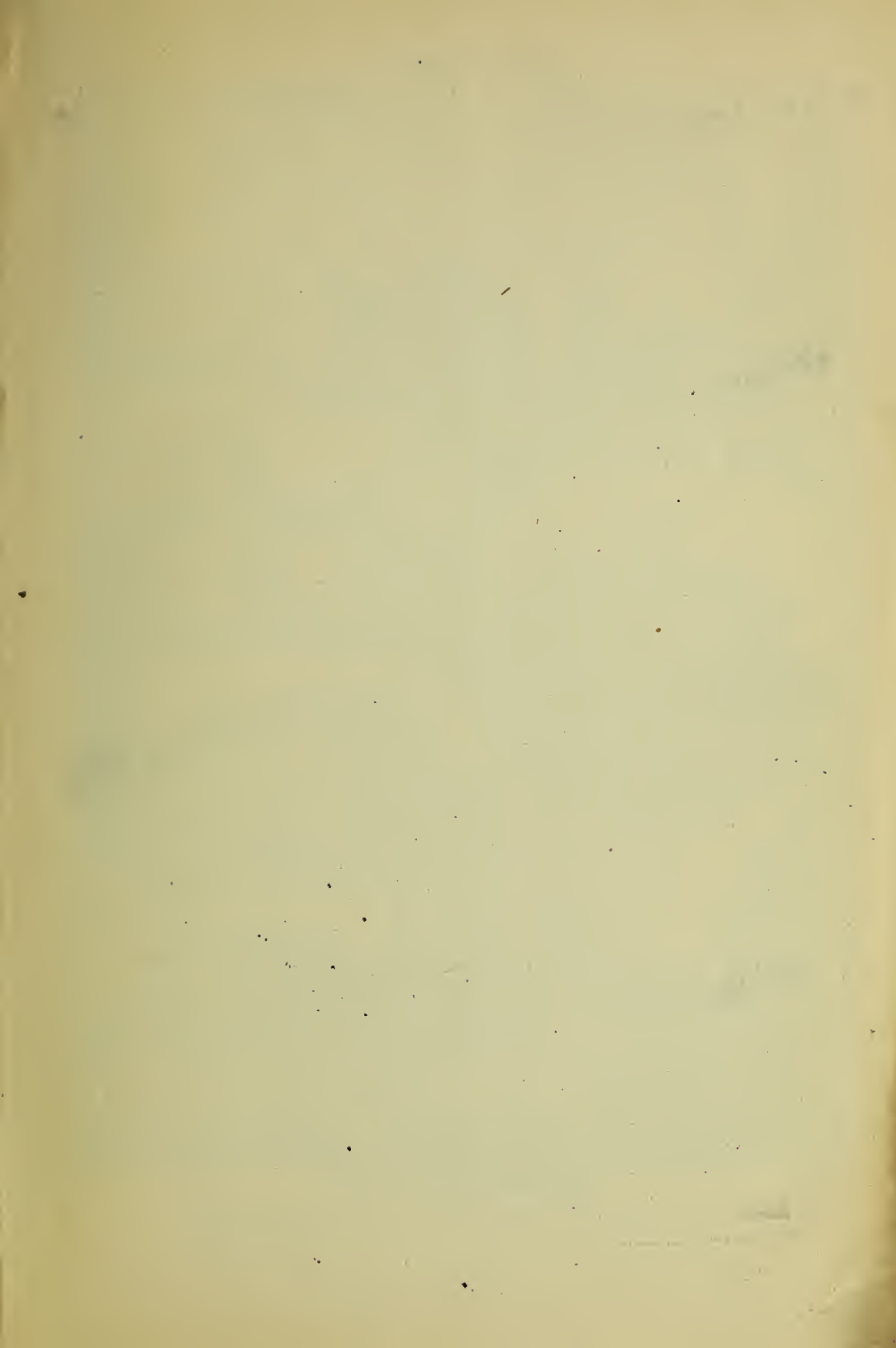
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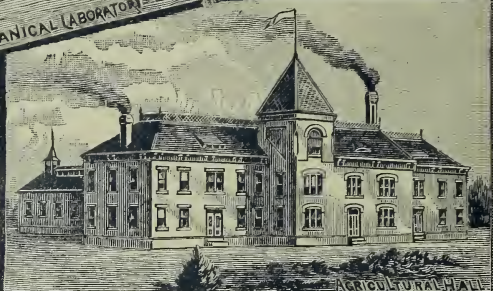
PEIRCE CONSERVATORY.



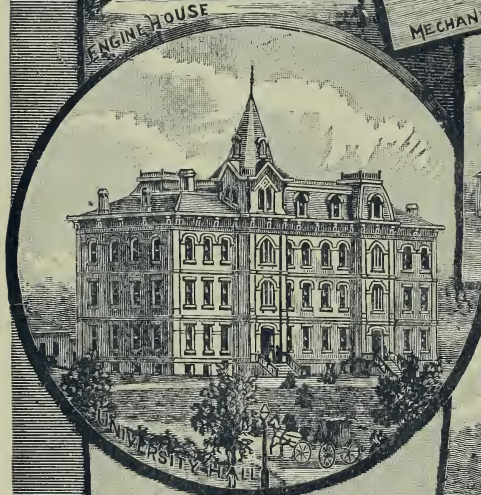
ENGINE HOUSE



MECHANICAL LABORATORY



AGRICULTURAL HALL



UNIVERSITY HALL



MENS DORMITORY



ART HALL



CHEMICAL LABORATORY



GYMNASIUM

PURDUE UNIVERSITY BUILDINGS

LaFayette, Ind.

# PURDUE UNIVERSITY.



## Seventh Annual Catalogue

OF THE

# SCHOOL OF PHARMACY

1890-91.



INDIANAPOLIS:

WM. B. BURFORD, CONTRACTOR FOR STATE PRINTING AND BINDING.

1890.





## TRUSTEES.

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|                     |   |   |   |   |   |   |               |
|---------------------|---|---|---|---|---|---|---------------|
| WILLIAM A. BANKS,   | - | - | - | - | - | - | LaPorte.      |
| CHARLES B. STUART,  | - | - | - | - | - | - | LaFayette.    |
| ADDISON BYBEE,      | - | - | - | - | - | - | Indianapolis. |
| WILLIAM H. RAGAN,   | - | - | - | - | - | - | Greencastle.  |
| EDWIN P. HAMMOND,   | - | - | - | - | - | - | Rensselaer.   |
| JASPER N. DAVIDSON, | - | - | - | - | - | - | Whitesville:  |

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## CALENDAR 1890-91.

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September 16, 1890. Examination for admission.

September 17, 1890. Lectures begin in School of Pharmacy.

December 23, 1890, to January 5, 1891. Christmas holidays.

March 18, 1891. Close of session in School of Pharmacy.

## FACULTY.

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JAMES H. SMART, A. M., LL.D.,  
*President of the University.*

ARTHUR L. GREEN, PH. C.,  
*Dean, and Professor of Chemistry,*

STANLEY COULTER, PH. D.,  
*Professor of Biology.*

GEORGE SPITZER, PH. G.,  
*Professor of Pharmacy.*

OTTO G. ZERSE, PH. C.,  
*Special Professor in Charge of Prescription Work.*

LAIRD J. STABLER, PH. C.,  
*Instructor in Chemistry.*

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## STATE EXAMINERS.

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A. J. DETZER, Ft. Wayne.

D. H. LOHMAN, LaFayette.

E. G. EBERHARDT, Indianapolis.



## SEVENTH ANNUAL CATALOGUE. 1890-91.

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PURDUE UNIVERSITY is the State Institution of Technology. It is supported by legislative appropriations and by the proceeds of an endowment fund granted by the General Government. It derives its name through legislative enactment from John Purdue, who gave to the State for the use of the Institution one hundred and fifty thousand dollars. It has a permanent endowment fund to the amount of three hundred and forty thousand dollars, and other non-productive property in buildings, lands and equipment to the value of three hundred and eighty thousand dollars, and an annual income from State appropriations of thirty thousand dollars.

It has one hundred and eighty acres of land in its campus and farm, fifteen buildings, well-equipped laboratories, shops, museums, library and reading rooms.

The School of Pharmacy affords a thorough and practical training in pharmacy, chemistry and related subjects. Students are engaged seven or eight hours a day at the University. The morning hours are given to microscopical, prescription and cabinet work, together with lectures and recitations. In addition, students are engaged in chemical and pharmaceutical work in the laboratory from 12:30 to 5:30 five days every week. No lectures in the evening, as this time is devoted to study. The work as thus arranged allows no opportunity for clerking in a store.

Special attention is called to the large amount of required laboratory work, much more than is usually required in schools of pharmacy. The required laboratory work in the preparation of medicines alone being twenty-five hours a week for seventeen weeks.

Instruction includes two years of twenty-four weeks each. Women will be admitted on the same conditions as men.

The instruction as arranged affords also an excellent preparatory course for those who anticipate attending a school of medicine.

# OUTLINE OF REQUIRED WORK:

| YEAR.   | SUBJECTS.                                          | No. of Hours in<br>Lecture room. | No. of Hours in<br>Laboratory. |
|---------|----------------------------------------------------|----------------------------------|--------------------------------|
| FIRST.  | 1. Prescription Work . . . . .                     | ...                              | 12                             |
|         | 2. Qualitative Analysis . . . . .                  | 45                               | 325                            |
|         | 3. Inorganic Chemistry . . . . .                   | 69                               | ...                            |
|         | 4. Galenical Preparations . . . . .                | 32                               | 150                            |
|         | 5. Inorganic Pharmaceutical Preparations . . . . . | 10                               | 125                            |
|         | 6. Pharmacognosy . . . . .                         | ...                              | 24                             |
|         | 7. Therapeutics . . . . .                          | 24                               | ...                            |
|         | 8. Human Anatomy and Physiology . . . . .          | 10                               | 28                             |
|         | 9. Doses and Composition of Medicines . . . . .    | 24                               | ...                            |
|         | 10. Pharmaceutical Problems. . . . .               | 10                               | ...                            |
|         | Total hours for the year . . . . .                 | 224                              | 664                            |
|         | Average per week . . . . .                         | 37                               |                                |
| SECOND. | 11. Organic Pharmaceutical Preparations . . . . .  | 16                               | 200                            |
|         | 12. Toxicology . . . . .                           | 6                                | 75                             |
|         | 13. Organic Qualitative Analysis . . . . .         | ...                              | 24                             |
|         | 14. Analysis of Urine . . . . .                    | 4                                | 50                             |
|         | 15. Quantitative Analysis . . . . .                | 16                               | 200                            |
|         | 16. Pharmaceutical Assaying . . . . .              | 6                                | 75                             |
|         | 17. Organic Chemistry . . . . .                    | 60                               | ...                            |
|         | 18. Therapeutics. . . . .                          | 24                               | ...                            |
|         | 19. Pharmaceutical Synonyms . . . . .              | 24                               | ...                            |
|         | 20. Botany . . . . .                               | 24                               | 24                             |
|         | 21. Foods. . . . .                                 | 12                               | ...                            |
|         | 22. Prescription Work . . . . .                    | 24                               | 96                             |
|         | Total hours for the year . . . . .                 | 216                              | 744                            |
|         | Average per week . . . . .                         | 40                               |                                |

## SECOND YEAR.

11. ORGANIC PHARMACEUTICAL PREPARATIONS.—Pharmacopœial standards and tests of organic preparations; recitations on laboratory work.

In the laboratory each student, independently, makes several preparations, among which are ethyl acetate, ethyl nitrite, ether, chloroform, alcohol, iodoform, nitrobenzole, anilin, acetanilid, tartaric acid, oleic acid, benzoic acid, gallic acid, one oleate, one oleoresin, resin of podophyllum, an alkaloid (quinine), four scale preparations and a volatile oil.

12. TOXICOLOGY.—Lectures directing laboratory work; students are instructed in the use of antidotes in cases of poisoning.

Laboratory work consists in the separation and identification of the more common organic and inorganic poisons.

13. ORGANIC QUALITATIVE ANALYSIS (*Proximate*).—Students will have practice in the chemical identification of several organic compounds, working first with known and finally with unknown mixtures; special attention is given to the incapacities of organic substances.

14. ANALYSIS OF URINE.—The chemical and microscopical examination of samples of urine.

15. QUANTITATIVE ANALYSIS.—The preparation of volumetric reagents, and their application in testing the strength and purity of Pharmacopœial chemicals. Gravimetric work is also given.

16. PHARMACEUTICAL ASSAYING.—Lectures and laboratory work; assays are made of opium, cinchona, aconite, belladonna and other drugs.

17. ORGANIC CHEMISTRY.—Recitations and lectures on hydrocarbons, aldehydes, ethers, compound ethers, organic acids, carbohydrates, alkaloids, glucosides, resins, gums, gum-resins, oleo-resins, balsams and oils.

18. THERAPEUTICS.—Continuation of the work of the First Year.

19. PHARMACEUTICAL SYNONYMS.—Students are drilled in the Latin, English and German names of medicinal substances and their preparations.

20. BOTANY.—The instruction in this subject comprises:

a. A careful study of the compound microscope and its appliances, together with practice in mounting, sectioning, etc.

b. A study of the various tissues and tissue elements, together with practice in the application of the facts thus obtained in the detection of adulterations in drugs.

c. A study of the gross anatomy of typical plants and their organs.

21. FOOD.—Lectures on milk, butter, tea, coffee, water, sugar and other foods, including their composition, preparation, adulteration, analysis, preservation and healthfulness.

22. PRESCRIPTION WORK.—Each student is required to read and correct hundreds of prescriptions taken from the files of drug stores. The more difficult prescriptions are filled by the student in the prescription room. The reading, correcting and filling is under the personal supervision of a practical druggist.

## REVIEWS.

SECOND YEAR.—Students are required to pass an examination in each of the following subjects of the first year: Doses and Composition of Medicines and Pharmacognosy. The examination in Doses and Composition of Medicines will be required soon after the beginning of the second year.

## REQUIREMENTS FOR ADMISSION.

Candidates for admission must present evidence of good moral character, and have a good knowledge of the common English branches. In arithmetic, special familiarity with denominate numbers, fractions, percentage and proportion will be required. Due weight will also be given to the applicant's penmanship and English composition. All applicants must be present for examination on Tuesday, September 16, at 9 A. M. No one will be allowed to enter the School of Pharmacy from the other schools of Purdue University without the special permission of the Faculty.

## THE EXAMINATION IN PRACTICAL EXPERIENCE.

Besides the examinations on the lectures, an examination on the student's practical experience, proving his familiarity with such details as are best learned behind the counter, will be required for graduation. This examination is held during the latter part of the second year, and is conducted by the Committee on Education of the Indiana Pharmaceutical Association.

## GRADUATION.

The degree of Graduate in Pharmacy (Ph. G.) will be conferred upon each student not less than twenty-one years of age who successfully complete the required course.

Those who complete the first and second year, and who are under twenty-one years of age, or have not fulfilled the requirements of practical experience in a dispensing pharmacy, may return for examination in pharmaceutical practice and for the usual diploma, after complying with the prescribed conditions.

## APPLIANCES.

The University has abundant accommodations in the various laboratories. In the chemical and pharmaceutical laboratory only one student is assigned to a table. The school allows the free use of chemical and pharmaceutical apparatus and of compound microscopes.

All the important pharmaceutical and chemical journals in the English language are kept on file for the use of the student.

Most of the standard works of reference in pharmacy and chemistry are accessible to students, under certain restrictions.

The annual register of Purdue University, containing full information of the various courses, laboratories and museums, will be sent on application.

## PRESCRIPTION ROOM.

Special attention is called to our prescription department. A separate room is fitted up as a dispensing pharmacy and used by the students in filling prescriptions. Students are en-



gaged in prescription work one hour a day during the second year. There is also some work required in the first year. It is the purpose to make the school as practical as possible.

### MUSEUM.

The school is well supplied with cabinets of crude vegetable drugs, inorganic materials and pharmaceutical preparations. These cabinets are accessible to students at all hours of the day. The student not only examines these samples as a matter of interest, but he is required to recognize them through a series of continued examinations.

### TEXT BOOKS.

The following text books (the latest editions) will be used :

#### *First Year—*

Remington's Practice of Pharmacy.

Clowes' Practical and Analytical Chemistry.

Bloxam's Chemistry, Inorganic and Organic, with Experiments.

#### *Second Year—*

Lyons' Pharmaceutical Assaying.

Sexton's Quantitative Analysis.

Jennings' Practical Urine Testings.

Farquarson's Materia Medica and Therapeutics.



## ALUMNI.

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1886.

- ERNEST G. EBERHARDT, analytical chemist for Eli Lilly & Co.  
MANUEL JAY, practicing physician, 314 West Madison street,  
South Bend, Ind.  
JOHN KENNEDY, in charge of prescription department of R. G.  
Moore, Vincennes, Ind.  
EDWIN J. MOWRY, druggist, Columbia City, Ind.  
LOUIS H. SCHULMEYER, druggist, North Illinois street, Indian-  
apolis.  
BERT D. WESTENFELDER, chemist to the Oak, Tan & Leather  
Co., Cincinnati, O.  
EMORY J. YEAGER, prescription clerk with Dr. A. A. Wells, La-  
Fayette, Ind.

1887.

- MILLARD CALDWELL, prescription clerk with B. G. Moore, Hart-  
ford City, Ind.  
WILLIAM H. DICKINSON, in charge of J. B. Kerr's Lake-Street  
Pharmacy, 537 West Lake street, Chicago.  
CHARLES L. HACKETT, in the firm of John Hackett & Son, Roan-  
oke, Ind.  
WILLIAM M. ROSS, prescription clerk with J. R. Hofflin, Minne-  
apolis, Minn.  
ALBERT W. SHOUP, in firm of Wells & Shoup, West LaFayette,  
Ind.

1888.

- PETER H. FETTERS, in firm of Fetters & Morrison, Indianapolis.  
SAMUEL KENNEDY, during 1889 with E. Haworth, LaFayette, Ind.  
At present attending Louisville Medical College.  
GEORGE C. MORRISON, in firm of Fetters & Morrison, Indian-  
apolis.  
WILLIAM H. VAWTER, manufacturing chemist with Ely Lilly &  
Co., Indianapolis.

1889.

ADEN L. CAVINS, clerking at Patoka, Ind.

MERIT POST, manufacturing chemist with Eli Lilly & Co., Indianapolis.

CHARLES W. SHAFER, druggist, Morocco, Ind.

GEORGE SPITZER, Professor of Pharmacy at Purdue School of Pharmacy.

CORLICE M. WARNER, prescription clerk with S. Mühl, Indianapolis.

DON CARLTON WHITEHEAD, clerking, Indianapolis.

## STUDENTS 1889-90.

### SECOND YEAR STUDENTS.

|                               |                |
|-------------------------------|----------------|
| ROBERT W. ALLEN . . . . .     | Brookston.     |
| ELDEN BEASLEY . . . . .       | Union.         |
| MOSES T. BOGGS. . . . .       | LaFayette.     |
| BERT. CRITZ . . . . .         | Newtown.       |
| JOHN E. DUNLAVY . . . . .     | Fillmore.      |
| WILLIAM E. EASTERDAY. . . . . | Vandalia, Ill. |
| JOSEPH L. FEIBLEMAN. . . . .  | Indianapolis.  |
| GEORGE W. LACEY . . . . .     | LaFayette.     |
| ALVIN H. LEESER. . . . .      | Ft. Wayne.     |
| HENRY W. MEINZEN . . . . .    | Ft. Wayne.     |
| FRANK RIGGS. . . . .          | Fairbanks.     |
| FRANK E. SHATTUCK . . . . .   | Bloomfield.    |
| MARION A. STOUT. . . . .      | Bluffton.      |
| CHARLES W. WATKINS . . . . .  | LaFayette.     |
| JOHN M. WESTFALL. . . . .     | LaFayette.     |
| CLARANCE A. ZERSE. . . . .    | Danville, Ill. |
| Total, 16.                    |                |

### FIRST YEAR STUDENTS.

|                               |                |
|-------------------------------|----------------|
| JOSEPH H. ANDERSON . . . . .  | Hull, Ia.      |
| ALONZO L. BITTLE . . . . .    | Shawnee Mound. |
| ERNEST BONSALE . . . . .      | Thorntown.     |
| PAUL D. BROWN . . . . .       | Westfield.     |
| CHARLIE C. CRAMPTON . . . . . | Delphi.        |
| AUGUST DIEHL . . . . .        | LaFayette.     |
| HENRY FLINT . . . . .         | Kendallville.  |
| EMANUEL H. GEBAUER . . . . .  | Sunman.        |

|                                |                   |
|--------------------------------|-------------------|
| FREDERICK W. GOODNOW . . . . . | Victor, N. Y.     |
| WILLIAM S. GREEN . . . . .     | Null's Mills.     |
| EMMET HAZELRIGG . . . . .      | Thorntown.        |
| HARRY W. HEATH . . . . .       | Sharpsville.      |
| ALVIN L. HILLS . . . . .       | Pittsburg, Texas. |
| LEMON E. HINE . . . . .        | Sedan.            |
| SPENCER J. HUNT . . . . .      | Elston.           |
| JAMES W. KYLE . . . . .        | Romney.           |
| OSCAR V. LAWSON . . . . .      | Chase.            |
| WILLIAM S. LINDSAY . . . . .   | Sharpsville.      |
| CLARENCE R. McCANN . . . . .   | Calhoun, Mo.      |
| JOSEPH O. McCARTY . . . . .    | Null's Mills.     |
| HARRY H. McDONALD . . . . .    | New Carlisle.     |
| JOHN S. MAX . . . . .          | LaFayette.        |
| OSCAR A. MEANS . . . . .       | Peru.             |
| GEORGE C. METZGAR . . . . .    | LaFayette.        |
| JOHN L. PEETZ . . . . .        | Sharpsville.      |
| LOUIS W. PLOGSTERTH . . . . .  | Indianapolis.     |
| WILDEY F. REYNOLDS . . . . .   | Richmond.         |
| DAVID L. RIFE . . . . .        | Peru.             |
| FRED. J. ROSSWURM . . . . .    | Huntington.       |
| HARRY E. SHARRER . . . . .     | Delphi.           |
| JAMES R. SPIVEY . . . . .      | Oxford, O.        |
| FRANK O. STABLER . . . . .     | Bethany, O.       |
| JULIUS W. STUERMER . . . . .   | Fort Wayne.       |
| Total, 34.                     |                   |

#### IRREGULAR AND SPECIAL STUDENTS.

|                             |              |
|-----------------------------|--------------|
| LUTHER J. HORD . . . . .    | Shelbyville. |
| FREDERICK C. TEST . . . . . | LaFayette.   |

#### SUMMARY.

|                                |    |
|--------------------------------|----|
| Second year . . . . .          | 16 |
| First year . . . . .           | 34 |
| Irregular and Special. . . . . | 2  |
| Total . . . . .                | 52 |

#### EXPENSES.

The expenses are far less than in the majority of similar schools, while unusual facilities are afforded for laboratory practice. The year is divided into two terms; the first commences September 17, 1890, and the second January 6, 1891.

The fees are as follows, payable in advance:

|                             |        |
|-----------------------------|--------|
| Entrance fee, per year..... | \$5 00 |
| Incidentals, per term.....  | 5 00   |
| Chemicals, per term .....   | 12 00  |

There will also be charges for breakage. To cover such expenses, a laboratory deposit of \$10.00 is required at the time of admission. About one-half of this deposit is usually returned to the student at the end of the year.

Good board and rooms may be had for \$3.25 per week; \$140 should cover the total expense of board, room rent, fuel, fees, books and washing for twenty-four weeks. Students of the School of Pharmacy must provide their own rooms in the village of West LaFayette, as they can not be accommodated in the college dormitory.

A fee of five dollars will be required for the diploma, and should be paid to the secretary before commencement week.





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